

WHAT IS CLAIMED IS:

1. A switch for an electric motor comprising:

a housing including a wall;

an electrical terminal within the housing;

a flexible switch arm having a fixed end secured within the housing and a free end movable between a first position in which the arm engages the electrical terminal making an electrical contact therebetween which affects operation of the motor, and a second position in which the arm is spaced from the electrical terminal and free of said electrical contact;

a movable control engageable with the switch arm to actuate movement of the switch arm between said first and second positions; and

a biasing member for urging movement of the control toward a generally stationary position against the wall of the housing to inhibit vibration of the control during operation of the motor;

wherein the biasing member is attached to the switch arm.

2. A switch as set forth in claim 1 wherein the biasing member is integrally formed with the switch arm.

3. A switch as set forth in claim 1 wherein the biasing member comprises a cantilevered spring.

4. A switch as set forth in claim 3 wherein the cantilevered spring has a proximal end connected to the switch arm generally adjacent the fixed end of the switch arm, and a free distal end.

5. A switch as set forth in claim 3 wherein the cantilevered spring comprises an integral portion of the switch arm extending longitudinally of the switch arm.

6. A switch as set forth in claim 5 wherein said integral portion of the switch arm comprises an elongate rectangular strip.

7. A switch as set forth in claim 1 wherein the control comprises a lever pivotally mounted on the housing.

8. A switch as set forth in claim 7 wherein the lever has an inner leg inside the housing and an outer leg outside the housing, and wherein the biasing member engages the inner leg.

9. A switch as set forth in claim 8 wherein the inner leg of the lever includes an abutment located generally at a tip of the inner leg for engaging the switch arm.

10. A switch as set forth in claim 9 wherein the abutment includes a first end engageable with the switch arm and an opposite, second end engageable with the wall of the housing.

11. A switch as set forth in claim 10 wherein the biasing member engages the first end of the abutment to urge the inner leg of the lever toward the wall of the housing.

12. A switch as set forth in claim 8 wherein the biasing member is integrally formed with the switch arm.

13. A switch as set forth in claim 12 wherein the biasing member comprises a cantilevered spring.

14. A switch as set forth in claim 13 wherein the cantilevered spring has a proximal end connected to the switch arm generally adjacent the fixed end of the switch arm, and a free distal end.

15. A switch as set forth in claim 13 wherein the cantilevered spring comprises an integral portion of the switch arm extending longitudinally of the switch arm.

16. A switch as set forth in claim 15 wherein said integral portion of the switch arm comprises an elongate rectangular strip.

17. In a switch for an electric motor having a wall defining a housing and an electrical terminal in the housing, a flexible switch arm having a fixed end and a free end movable between a first position in which the arm engages the electrical terminal making an electrical contact affecting operation of the motor and a second position in which the arm is spaced from the electrical terminal, and a pivotally mounted lever engageable with the switch arm for movement of the switch arm between said first and second positions, wherein the improvement comprises a cantilevered spring attached to the switch arm and engaging the lever to urge the lever toward a generally stationary position against the wall of the housing to thereby inhibit vibration of the lever during operation of the motor.